

<211> 882  
 <212> DNA  
 <213> Bacillus subtilis

<220>  
 <221> CDS  
 <222> (1)..(879)

<400> 21

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Met	Ser	Ile	Ala	Val	Ser	Glu	Glu	Glu	Ala	Lys	Ala	Val	Glu	Gly	Leu	
1				5					10					15		
aat	gat	tat	cta	tct	gtt	gaa	gaa	gtg	gag	acg	atc	tat	att	ccg	ctt	96
Asn	Asp	Tyr	Leu	Ser	Val	Glu	Glu	Val	Glu	Thr	Ile	Tyr	Ile	Pro	Leu	
			20					25					30			
gtt	cgc	ttg	ctt	cat	tta	cat	gtc	aag	tct	gcg	gct	gaa	cgc	aat	aag	144
Val	Arg	Leu	Leu	His	Leu	His	Val	Lys	Ser	Ala	Ala	Glu	Arg	Asn	Lys	
		35					40					45				
cat	gtc	aat	gtt	ttt	ttg	aag	cac	cca	cat	tca	gcc	aaa	att	ccg	ttt	192
His	Val	Asn	Val	Phe	Leu	Lys	His	Pro	His	Ser	Ala	Lys	Ile	Pro	Phe	
	50					55					60					
att	atc	ggc	att	gcc	ggc	agt	gtc	gca	gtc	gga	aaa	agc	acg	acg	gcg	240
Ile	Ile	Gly	Ile	Ala	Gly	Ser	Val	Ala	Val	Gly	Lys	Ser	Thr	Thr	Ala	
65					70					75					80	
cgg	atc	ttg	cag	aag	ctg	ctt	tcg	cgt	ttg	cct	gac	cgt	cca	aaa	gtg	288
Arg	Ile	Leu	Gln	Lys	Leu	Leu	Ser	Arg	Leu	Pro	Asp	Arg	Pro	Lys	Val	
				85					90					95		
agc	ctt	atc	acg	aca	gat	ggt	ttt	tta	ttt	cct	act	gcc	gag	ctg	aaa	336
Ser	Leu	Ile	Thr	Thr	Asp	Gly	Phe	Leu	Phe	Pro	Thr	Ala	Glu	Leu	Lys	
			100					105					110			
aag	aaa	aat	atg	atg	tca	aga	aaa	gga	ttt	cct	gaa	agc	tat	gat	gta	384
Lys	Lys	Asn	Met	Met	Ser	Arg	Lys	Gly	Phe	Pro	Glu	Ser	Tyr	Asp	Val	
		115					120					125				
aag	gcg	ctg	ctc	gaa	ttt	ttg	aat	gac	tta	aaa	tca	gga	aag	gac	agc	432
Lys	Ala	Leu	Leu	Glu	Phe	Leu	Asn	Asp	Leu	Lys	Ser	Gly	Lys	Asp	Ser	
	130					135					140					
gta	aag	gcc	ccg	gtg	tat	tcc	cat	cta	acc	tat	gac	cgc	gag	gaa	ggt	480
Val	Lys	Ala	Pro	Val	Tyr	Ser	His	Leu	Thr	Tyr	Asp	Arg	Glu	Glu	Gly	
145					150					155					160	
gtg	ttc	gag	gtt	gta	gaa	cag	gcg	gat	att	gtg	att	att	gaa	ggc	att	528
Val	Phe	Glu	Val	Val	Glu	Gln	Ala	Asp	Ile	Val	Ile	Ile	Glu	Gly	Ile	
				165					170					175		
aat	gtt	ctt	cag	tcg	ccc	acc	ttg	gag	gat	gac	cgg	gaa	aac	ccg	cgt	576
Asn	Val	Leu	Gln	Ser	Pro	Thr	Leu	Glu	Asp	Asp	Arg	Glu	Asn	Pro	Arg	
			180					185					190			
att	ttt	gtt	tcc	gat	ttc	ttt	gat	ttt	tcg	att	tat	gtg	gat	gcg	gag	624
Ile	Phe	Val	Ser	Asp	Phe	Phe	Asp	Phe	Ser	Ile	Tyr	Val	Asp	Ala	Glu	
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[illegible]

	100	105	110	
agc tat gat gta aag gcg ctg ctc gaa ttt ttg aat gac tta aaa tca				384
Ser Tyr Asp Val Lys Ala Leu Leu Glu Phe Leu Asn Asp Leu Lys Ser				
	115	120	125	
gga aag gac agc gta aag gcc ccg gtg tat tcc cat cta acc tat gac				432
Gly Lys Asp Ser Val Lys Ala Pro Val Tyr Ser His Leu Thr Tyr Asp				
	130	135	140	
cgc gag gaa ggt gtg ttc gag gtt gta gaa cag gcg gat att gtg att				480
Arg Glu Glu Gly Val Phe Glu Val Val Glu Gln Ala Asp Ile Val Ile				
	145	150	155	160
att gaa ggc att aat gtt ctt cag tcg ccc acc ttg gag gat gac cgg				528
Ile Glu Gly Ile Asn Val Leu Gln Ser Pro Thr Leu Glu Asp Asp Arg				
	165	170	175	
gaa aac ccg cgt att ttt gtt tcc gat ttc ttt gat ttt tcg att tat				576
Glu Asn Pro Arg Ile Phe Val Ser Asp Phe Phe Asp Phe Ser Ile Tyr				
	180	185	190	
gtg gat gcg gag gaa agc cgg att ttc act tgg tat tta gag cgt ttt				624
Val Asp Ala Glu Glu Ser Arg Ile Phe Thr Trp Tyr Leu Glu Arg Phe				
	195	200	205	
cgc ctg ctt cgg gaa aca gct ttt caa aat cct gat tca tat ttt cat				672
Arg Leu Leu Arg Glu Thr Ala Phe Gln Asn Pro Asp Ser Tyr Phe His				
	210	215	220	
aaa ttt aaa gac ttg tcc gat cag gag gct gac gag atg gca gcc tcg				720
Lys Phe Lys Asp Leu Ser Asp Gln Glu Ala Asp Glu Met Ala Ala Ser				
	225	230	235	240
att tgg gag agt gtc aac cgg ccg aat tta tat gaa aat att ttg cca				768
Ile Trp Glu Ser Val Asn Arg Pro Asn Leu Tyr Glu Asn Ile Leu Pro				
	245	250	255	
act aaa ttc agg tca gat ctc att ttg cgt aag gga gac ggg cat aag				816
Thr Lys Phe Arg Ser Asp Leu Ile Leu Arg Lys Gly Asp Gly His Lys				
	260	265	270	
gtc gag gaa gtg ttg gta agg agg gta tga				846
Val Glu Glu Val Leu Val Arg Arg Val				
	275	280		

<210> 23  
 <211> 831  
 <212> DNA  
 <213> Bacillus subtilis

<220>  
 <221> CDS  
 <222> (1)..(831)

<400> 23	
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1 5 10 15	

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